

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| S1    | 1815 | (vehicle or automobile or automotive or car) and (coolant or (cool\$3 near2 water) or (cool\$3 near2 fluid)) and pump and heat\$3 and engine and (exhaust with (heat adj exchang\$3))                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/06/22<br>16:10 |
| S2    | 1513 | S1 and (engine with exhaust)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/06/22<br>16:11 |
| S3    | 707  | S2 and ((coolant or (cool\$3 near2 water) or (cool\$3 near2 fluid)) same heat\$3 same engine same (exhaust with (heat adj exchang\$3)))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/06/22<br>16:12 |
| S4    | 255  | S3 and (bypass or (by adj pass))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/06/22<br>16:14 |
| S5    | 17   | ("3223150"   "3779307"   "4146176"   "4884744"   "5934073"   "5983628"   "6044642"   "6141961"   "6151891"   "6266957"   "6272850"   "6318077"   "6330796"   "6345499"   "6622480"   "6739579").PN. OR ("7246487").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/06/22<br>16:22 |

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|----|----|--|---|----|-----|---------------------|
| S6 | 26 | ("4902487"  <br>"5201802"  <br>"5447696"  <br>"5511413"  <br>"5685145"  <br>"5711149"  <br>"5983628"  <br>"6314722"  <br>"6318077"  <br>"6347511"  <br>"6357226"  <br>"6427436"  <br>"6446430"  <br>"6464744"  <br>"6568179"  <br>"6571551").PN. OR<br>("6871489").URFN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/06/22<br>16:30 |
| S7 | 20 | ("5181392"  <br>"5641016"  <br>"5706664"  <br>"5725048"  <br>"5749235"  <br>"5782102"  <br>"5878589"  <br>"6037567"  <br>"6047770"  <br>"6105666"  <br>"6357541"  <br>"6370903").PN. OR<br>("6843312").URFN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/06/22<br>16:33 |
| S8 | 24 | ((("5082174") or<br>("5192021") or<br>("4982895") or<br>("4611466") or<br>("4884744") or<br>("4274390") or<br>("2783622") or<br>("4775102") or<br>("2521393") or<br>("6330910"))).PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/06/22<br>17:45 |
| S9 | 2  | ("4705214").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/06/22<br>17:48 |

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| S10 | 4  | ((("5192021") or ("5082174"))).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/06/22<br>17:50 |
| S11 | 2  | FR near "2821298"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/22<br>17:53 |
| S12 | 2  | DE near "10047810"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/22<br>17:54 |
| S13 | 0  | EP near "0985807"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/22<br>17:55 |
| S14 | 2  | EP near "985807"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/22<br>17:55 |
| S15 | 48 | (US-20080011866-\$ or US-20040206069-\$ or US-20040144084-\$ or US-20030070427-\$ or US-20010013409-\$).did. or (US-7246487-\$ or US-6739579-\$ or US-6151891-\$ or US-6141961-\$ or US-6044642-\$ or US-4884744-\$ or US-6871489-\$ or US-6843312-\$ or US-6792898-\$ or US-6464027-\$ or US-6450283-\$ or US-4537349-\$ or US-6804949-\$ or US-6216458-\$ or US- | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT                     | OR | ON  | 2009/06/23<br>09:13 |

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|     |    | 5896746-\$ or US-4391235-\$ or US-4335849-\$ or US-4146176-\$ or US-6330910-\$ or US-5192021-\$ or US-5082174-\$ or US-4982895-\$ or US-4775102-\$ or US-4611466-\$ or US-4274390-\$ or US-2783622-\$).did. or (US-2521393-\$ or US-4705214-\$).did. or (US-3223150-\$ or US-2783622-\$ or US-2749050-\$ or US-2749048-\$).did. or (JP-59018010-\$ or JP-59018009-\$ or JP-59008517-\$ or JP-2006232006-\$ or JP-03090430-\$).did. or (FR-2806964-\$ or DE-19908088-\$ or FR-2679603-\$ or FR-2821298-\$ or DE-10047810-\$ or EP-985807-\$).did. |   |    |    |                     |
| S16 | 3  | S15 and ((outdoor or outside or ambient) with temperature) and ((cabin or compartment) with temperature) and ((flap\$3 or damper or shutter or valve) same exhaust)  | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT | OR | ON | 2009/06/23<br>09:18 |
| S17 | 20 | "237".clas. and ((outdoor or outside or ambient) with temperature) same ((cabin or compartment) with temperature) same ((flap\$3 or damper or shutter or valve) same exhaust)  | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT | OR | ON | 2009/06/23<br>09:24 |

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| S18 | 29   | ("123".clas. or "60". clas.) and ((outdoor or outside or ambient) with temperature) same ((cabin or compartment) with temperature) same ((flap\$3 or damper or shutter or valve) same exhaust)            | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT                     | OR | ON | 2009/06/23<br>09:25 |
| S19 | 1    | S15 and ((outdoor or outside or ambient) with temperature with (sens\$3 or detect \$3)) and ((cabin or compartment) with temperature with (sens\$3 or detect \$3))  | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT                     | OR | ON | 2009/06/23<br>09:28 |
| S20 | 247  | ("237".clas. or "123". clas. or "60".clas.) and ((outdoor or outside or ambient) with temperature with (sens\$3 or detect\$3)) and ((cabin or compartment) with temperature with (sens\$3 or detect \$3)) | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT                     | OR | ON | 2009/06/23<br>09:36 |
| S22 | 1664 | ("123".clas. or "60". clas. or "237".clas.) and ((increas\$3 or greater or larger) with fuel with engine with heat\$3) and ((flap\$3 or damper or shutter or valve) same exhaust)                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>09:48 |
| S23 | 82   | S22 and ((increas\$3 or greater or larger) with fuel with engine with expansion with heat\$3) and ((flap\$3 or damper or shutter or valve) same exhaust)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>09:48 |

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| S24 | 13   | ("237".clas. or "123".clas. or "60".clas.) and (((increas\$3 or greater or larger) with fuel with engine with expansion with heat\$3) same ((increas\$3 or greater or larger) with exhaust with temperature)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>09:53 |
| S25 | 2    | S15 and ((engine or motor) with (speed or rpm or revolutions)) same ((engine or motor) with torque)   | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT                     | OR | ON | 2009/06/23<br>09:57 |
| S26 | 6519 | ("237".clas. or "123".clas. or "60".clas.) and ((engine or motor) with (speed or rpm or revolutions)) same ((engine or motor) with torque) and ((flap\$3 or damper or shutter or valve) with exhaust)         | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT                     | OR | ON | 2009/06/23<br>09:59 |
| S28 | 1600 | ("237".clas. or "123".clas. or "60".clas.) and ((engine or motor) with (speed or rpm or revolutions)) same ((engine or motor) with torque) same ((flap\$3 or damper or shutter or valve) with exhaust)        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>10:00 |
| S29 | 28   | S28 and ((flap\$3 or damper or shutter or valve) with exhaust with (heat adj exchang\$3))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>10:00 |

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| S30 | 13 | ("237".clas. or "123".clas. or "60".clas.) and ((engine or motor) with (speed or rpm or revolutions) with torque) same ((flap \$3 or damper or shutter or valve) with exhaust) same (heat adj exchang \$3)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>10:08 |
| S31 | 22 | ("237".clas. or "123".clas. or "60".clas.) and ((flap\$3 or damper or shutter or valve) with exhaust with (heat adj exchang\$3)) and (direct with injection with diesel)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>10:16 |
| S32 | 14 | S15 and ((engine or motor) with (speed or rpm or revolutions) or torque)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/23<br>10:29 |
| S33 | 54 | (US-20080011866-\$ or US-20040206069-\$ or US-20040144084-\$ or US-20030070427-\$ or US-20010013409-\$ or US-20020194844-\$ or US-20030136113-\$). did. or (US-7246487-\$ or US-6739579-\$ or US-6151891-\$ or US-6141961-\$ or US-6044642-\$ or US-4884744-\$ or US-6871489-\$ or US-6843312-\$ or US-6792898-\$ or US-6464027-\$ or US-6450283-\$ or US-4537349-\$ or US-6804949-\$ or US-6216458-\$ or US-5896746-\$ or US-4391235-\$ or US- | US-PGPUB;<br>USPAT;<br>USOCR; JPO;<br>DERWENT                     | OR | ON | 2009/06/24<br>10:04 |

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|     |     | 4335849-\$ or US-4146176-\$ or US-6330910-\$ or US-5192021-\$ or US-5082174-\$ or US-4982895-\$ or US-4775102-\$ or US-4611466-\$ or US-4274390-\$ or US-2783622-\$).did. or (US-2521393-\$ or US-4705214-\$ or US-6543531-\$ or US-6082626-\$ or US-6782694-\$ or US-6155042-\$).did. or (US-3223150-\$ or US-2783622-\$ or US-2749050-\$ or US-2749048-\$).did. or (JP-59018010-\$ or JP-59018009-\$ or JP-59008517-\$ or JP-2006232006-\$ or JP-03090430-\$).did. or (FR-2806964-\$ or DE-19908088-\$ or FR-2679603-\$ or FR-2821298-\$ or DE-10047810-\$ or EP-985807-\$).did. |  |    |    |                  |
| S34 | 6   | S33 and ((engine or motor) with (speed or rpm or revolutions)) and ((engine or motor) with torque)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/24 10:05 |
| S35 | 143 | ("237".clas. or "123". clas. or "60".clas.) and ((flap\$3 or damper or shutter or valve) with exhaust with (heat adj exchang\$3)) and ((engine or motor) with (speed or rpm or revolutions)) and ((engine or motor) with torque)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/24 10:10 |

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| S36 | 10   | ("237".clas. or "123".clas. or "60".clas.) and ((flap\$3 or damper or shutter or valve) with exhaust with (heat adj exchang\$3)) and ((engine or motor) with (speed or rpm or revolutions) with (curve or figure)) and ((engine or motor) with torque) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>10:14 |
| S37 | 38   | S33 and (cool\$3 with temperature)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>10:25 |
| S38 | 806  | 237/2A.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>16:35 |
| S39 | 1809 | 237/12.3B.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>16:35 |
| S40 | 1781 | 237/12.3A.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>16:36 |
| S41 | 1352 | 123/142.5R.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>16:36 |
| S42 | 885  | 60/320.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>16:36 |

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| S43 | 37 | Le-Lievre-Armel\$.in.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>16:39 |
| S44 | 37 | S40 and (coolant or (cool\$3 near2 water) or (cool\$3 near2 fluid)) and heat\$3 and (engine or motor) and (exhaust with (heat adj exchang\$3)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>17:41 |
| S45 | 85 | S41 and (exhaust with (heat adj exchang\$3))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/24<br>17:46 |

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